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NMGS
TECHNICAL SERVICE BULLETIN # 1

Product: NMGS

Date: November 8, 2001

Re: **FIELD CORRECTIVE ACTION:**
Incorrect connector orientation of J104.

Reference Doc: N/A

Reason/Rational: It has been discovered that connector J104 (vaporizer selector wire harness) may have been installed incorrectly from the PCB manufacturer.

Solution/Procedure: **Testing of 3 Vapor machines interfaced to Vitalert 3x00 series monitor:** After configuring vaporizer sequence, select all vaporizers in sequence and verify that the correct vaporizer identification is displayed on the Vitalert 3x00 Agent Monitoring window. If an incorrect vaporizer is displayed, the processor must be replaced.

Testing of 3 Vapor machines not interfaced to Vitalert 3x00 Series Monitor:
Enter the machine Main Service Screen (ref: Setion 2.1- “Main Service Screen” of the NMGS Service Manual for access). Enter the Secondary Service Screen (see “Additional Info.” below) to access the vaporizer configuration screen and configure the vaporizers in the following order:

LEFT: HAL CENTER: NONE RIGHT: ISO

Exit all service screens and return to the Main Monitoring Screen. Activate the **left** hand vaporizer (only) and verify if the message “**VAPOR NOT CONFIG**” is displayed in the Alarm window. If “**VAPOR NOT CONFIG**” is displayed in the Alarm window, the processor must be replaced. If the machine functions properly, be sure to reconfigure the vaporizers back to the original sequence.

Testing of 2 Vapor Machines (fixed mount vaporizers): Refer to “Testing of 3 Vapor machines not interfaced to Vitalert 3x00 series monitor” as listed above.

Testing of 2 Vapor Machines (removable vaporizers): A visual identification must be performed to identify the possible incorrect installation of J104. Refer to “Visual Identification” below.

DrägerService
3122 Commerce Drive
Telford, PA 18969
Tel: (215) 721-5402
(800) 543-5047
Fax: (215) 723-5935
Web: www.draegermedical.com
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Visual Identification: If in doubt, please use this method of identification. See "Replacement of processor" below. Refer to Figure 1 for visual identification of J104 of the NMGS processor, please check PCB's in your spare parts stock that have been recently ordered and received (part number 4113780-001). Service Exchange PCB's do not apply.

Replacement of processor: Follow the Processor replacement procedure found in section 4.20 of the NMGS service manual.

Devices affected: All machines manufactured after January 1, 2001 thru September 28, 2001 (starting with serial number 13223 to 13844).

Timing/When: At next service call or routine PMC, but **before July 31, 2002**.

Feedback Please complete and return the attached feedback form to Regulatory Affairs department.

Additional Info: Information regarding access to the Secondary Service Screen is reserved for those who have attended the NMGS Service Seminar. If you require additional information regarding access to the Secondary Service Screen, please call technical support at the number listed below.

Return of processor to DMI: Be sure to obtain a RMA at the time the replacement PCB is ordered. Please be ready to provide location and serial number of machine. Please expedite the return of the replaced processor ASAP.

Cost: Parts can be ordered as warranty replacements to address this Technical Service Bulletin.

Ordering Info/Parts: Please contact your customer service representative and order part number 4113780-001. Please reference this TSB as the purchase order number.

Distribution: Drager Medical, DragerService and all Authorized Service Organizations.

If you have any questions, please contact Technical Support by phone at 1-800-543-5047 or by fax at 1-215-723-5935.

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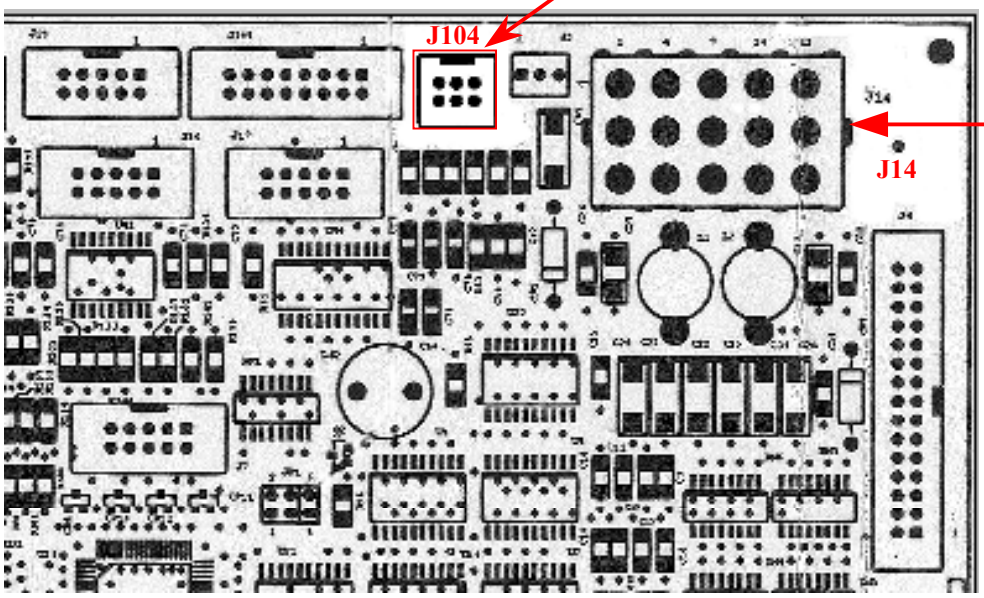
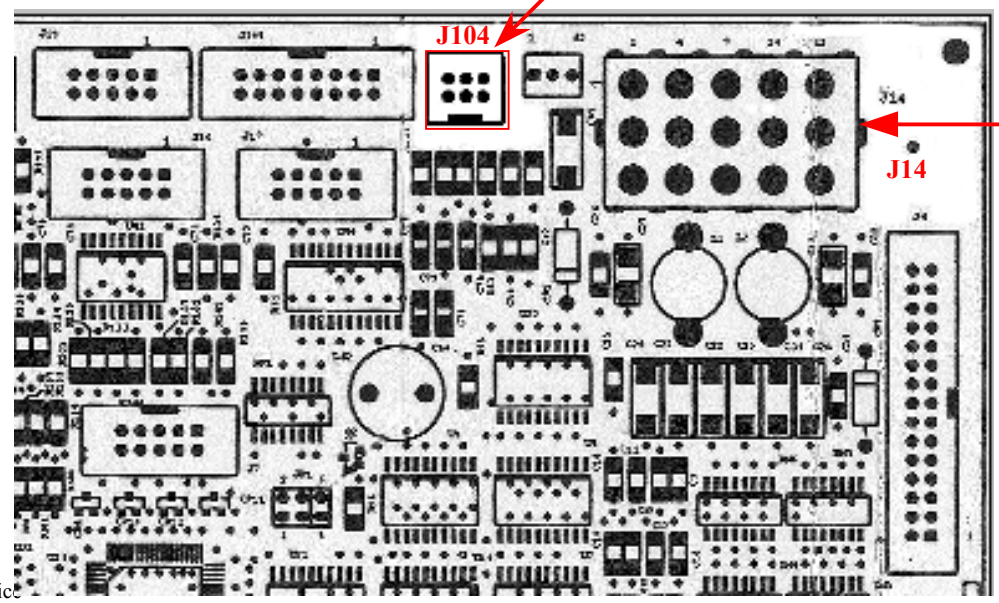
Incorrect orientation of connector keyway for J104.
Keyway should be located towards center of PCB.



Reference Power connector J14 for location of J104.

Correct orientation of J104 connector.
Notice keyway located towards center of PCB.



Reference Power connector J14 for location of J104.

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Dräger
MEDICAL

CORRECTIVE ACTION REPORT

PROCESSOR CHECK:
The following Narkomed GS Anesthesia Machine(s),

sn-	sn-	sn-	sn-
sn-	sn-	sn-	sn-
sn-	sn-	sn-	sn-
sn-	sn-	sn-	sn-

Located at _____,
(Facility Name)
Have been verified for the proper orientation of J104 connector, located on the processor PCB.

PROCESSOR REPLACEMENT:
The following Narkomed GS Anesthesia Machine(s),

sn-	sn-	sn-	sn-
sn-	sn-	sn-	sn-

Located at _____,
(Facility Name)
Have had the processor replaced due to the incorrect orientation of J104.

Please mail to:
Draeger Medical Inc.
3135 Commerce Drive
Telford PA, 18969
ATTN: Regulatory Affairs Department

Or Fax to: 215-721-5784

Technician Name:_____ I.D. #_____ Date:_____

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